



Water-Data Report 2008

01465854 SOUTH BRANCH RANCOCAS CREEK AT EAYRESTOWN, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 39°56'49", long 74°47'27" referenced to North American Datum of 1983, Lumberton Township, Burlington County, NJ, Hydrologic Unit 02040202, at bridge on Eayrestown-Newbolds Road, 0.1 mi north of Eayrestown, 1.3 mi southwest of Newbolds Corner, and 1.4 mi southeast of Lumberton.

DRAINAGE AREA.--66.4 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2005-08.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 19.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**
Part 1 of 5
[Remark codes: <, less than; E, estimated.]

Date	Time	Turbidity white light, det ang 90+/-30 corrctd	UV absorb- ance, 254 nm, wat flt	UV absorb- ance, 280 nm, wat flt	Baro- metric pressure, mm Hg	Dis- solved oxygen, mg/L (00025)	Dis- solved oxygen, percent of sat- uration (00300)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)
Dec 03...	0900	11	.373	.291	760	9.7	74	6.1	141	7.6	3.9	29	7.86
Feb 06...	0900	3.0	.412	.318	752	9.1	82	6.1	107	17.6	7.1	24	6.40
May 28...	1000	4.9	.758	.595	770	6.2	68	6.0	91	14.0	19.5	19	5.13
Aug 18...	0930	2.5	.300	.236	760	5.1	59	6.2	103	22.0	22.9	20	5.02

01465854 SOUTH BRANCH RANCOCAS CREEK AT EAYRESTOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 5

[Remark codes: <, less than; E, estimated.]

Date	ANC, wat unf fixed end pt,						Chlor- ide, water, fltrd, mg/L as CaCO3	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO2	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non- filter- able, mg/L (00530)	Ammonia	
	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	lab, mg/L as CaCO3	(90410)	(00940)							org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	
Dec 03...	2.21	2.76	11.0	8	18.2	E.07	6.7	18.1	E73	83	9	.39	.095		
Feb 06...	2.01	1.68	7.55	E5	13.1	E.06	5.8	17.2	E59	86	2	.48	.078		
May 28...	1.47	1.73	7.50	9	13.0	E.06	4.3	9.45	E50	71	7	.85	.295		
Aug 18...	1.72	2.36	9.14	8	15.2	E.06	3.8	12.4	E56	74	1	.41	.061		

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 5

[Remark codes: <, less than; E, estimated.]

Date	Nitrate + nitrite water fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, water, fltrd, mg/L (49570)	Total nitro- gen, water, fltrd, unfltrd mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, unfltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd, mg/L as P (00665)	Total carbon, suspd sediment mg/L (00694)	Inor- ganic carbon, suspd sediment mg/L (00688)	Organic carbon, suspd sediment mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Arsenic water, fltrd, μg/L (01000)	Arsenic water, unfltrd μg/L (01002)
Dec 03...	.31	.13	.70	.83	.044	.059	.134	1.4	<.04	1.4	8.5	--	--
Feb 06...	.61	.05	1.1	1.1	.022	.045	.064	.6	<.04	.6	9.5	.39	E.58
May 28...	.28	.05	1.1	1.2	.090	.148	.208	.7	<.04	.7	14.0	--	--
Aug 18...	.27	E.04	.68	E.71	.062	.102	.124	.4	<.04	.4	5.5	.72	.81

01465854 SOUTH BRANCH RANCOCAS CREEK AT EAYRESTOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 5

[Remark codes: <, less than; E, estimated.]

Date	Barium, water, unfltrd recover -able, μg/L (01007)	Beryll- ium, water, unfltrd recover -able, μg/L (01012)	Boron, water, unfltrd recover -able, μg/L (01020)	Boron, water, unfltrd recover -able, μg/L (01022)	Cadmium water, unfltrd recover -able, μg/L (01027)	Chrom- ium, water, unfltrd recover -able, μg/L (01034)	Copper, water, unfltrd recover -able, μg/L (01042)	Iron, water, unfltrd recover -able, μg/L (01045)	Lead, water, unfltrd recover -able, μg/L (01051)	Mangan- ese, water, unfltrd recover -able, μg/L (01055)	Mercury water, unfltrd recover -able, μg/L (71900)	Nickel, water, unfltrd recover -able, μg/L (01067)	Selen- ium, water, unfltrd recover -able, μg/L (01147)
Dec 03...	--	--	17	--	--	--	--	--	--	--	--	--	--
Feb 06...	38.7	.11	14	9	.11	.50	<1.2	502	.75	29.5	<.010	1.4	.13
May 28...	--	--	17	--	--	--	--	--	--	--	--	--	--
Aug 18...	38.2	.04	18	17	.03	E.37	E.85	1,080	.84	19.9	<.010	.92	.10

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007
TO SEPTEMBER 2008

Part 5 of 5

[Remark codes: <, less than;
E, estimated.]

Date	Silver, water, unfltrd recover -able, μg/L (01077)	Zinc, water, unfltrd recover -able, μg/L (01092)
Dec 03...	--	--
Feb 06...	<.02	20.0
May 28...	--	--
Aug 18...	<.02	6.6

01465854 SOUTH BRANCH RANCOCAS CREEK AT EAYRESTOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 7

[Remark codes: <, less than; E, estimated.]

Date	1-Naph-thol, water, 0.7u GF μg/L (49295)	2,6-Di-ethyl-aniline, water, 0.7u GF μg/L (82660)	2Chloro- -2',6'-diethyl acetanilide CIAT, wat flt μg/L (61618)	2-Ethyl -6-methyl-chloro-aniline water, fltrd, μg/L (04040)	3,4-Di-chloro-aniline water, fltrd, μg/L (61620)	3,5-Di-chloro-aniline water, fltrd, μg/L (61625)	4-Chloro- 2methyl-phenol, water, fltrd, μg/L (61627)	Aceto-chlor, water, fltrd, μg/L (61633)	Ala-chlor, water, fltrd, μg/L (49260)	alpha-Endosulfan, water, fltrd, μg/L (46342)	Atra-zine, water, fltrd, μg/L (34362)	Azin-phos-methyl oxon, water, fltrd, μg/L (39632)	Azin-phos-methyl oxon, water, fltrd, μg/L (61635)
May 28...	E.02	<.006	<.010	E.007	<.010	<.006	<.008	<.005	<.006	<.006	<.006	.019	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 7

[Remark codes: <, less than; E, estimated.]

Date	Azin-phos-methyl, water, 0.7u GF μg/L (82686)	Ben-flur-alin, water, 0.7u GF μg/L (82673)	Car-baryl, water, 0.7u GF μg/L (82680)	Carbo-furan, water, 0.7u GF μg/L (82674)	Chlor-pyrifos oxon, water, 0.7u GF μg/L (61636)	Chlor-pyrifos water, 0.7u GF μg/L (38933)	cis-Per-methrin Chlor-pyrifos water, 0.7u GF μg/L (82687)	cis-Propi-conazole water, 0.7u GF μg/L (79846)	Cyana-zine, water, 0.7u GF μg/L (04041)	Cyflu-thrin, water, 0.7u GF μg/L (61585)	lambda-Cyhalothrin, water, 0.7u GF μg/L (61595)	Cyper-methrin water, 0.7u GF μg/L (61586)	DCPA, water, 0.7u GF μg/L (82682)
May 28...	<.120	<.010	E.304	<.020	<.06	E.006	<.010	<.006	<.020	<.016	<.004	<.014	<.003

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 7

[Remark codes: <, less than; E, estimated.]

Date	Desulf- inylfipro- nil, water, fltrd, μg/L (62170)	Diazi-non, water, fltrd, μg/L (39572)	Dicro-tophos, water, fltrd, μg/L (38454)	Diel-drin, water, fltrd, μg/L (39381)	Dimeth-oate, water, 0.7u GF μg/L (82662)	Disulf-oton, sulfone water, 0.7u GF μg/L (61640)	Disul-foton, water, 0.7u GF μg/L (82677)	Endo-sulfan, sulfate water, 0.7u GF μg/L (61590)	EPTC, water, 0.7u GF μg/L (82668)	Ethion, monoxon water, 0.7u GF μg/L (61644)	Ethion, water, 0.7u GF μg/L (82346)	Etho-prop, water, 0.7u GF μg/L (82672)	Fenami-phos- sulfone water, fltrd, μg/L (61645)
May 28...	<.012	<.007	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.006	<.012	<.053

01465854 SOUTH BRANCH RANCOCAS CREEK AT EAYRESTOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 7

[Remark codes: <, less than; E, estimated.]

Date	Fenami-phos sulf- oxide, water, fltrd, μg/L (61646)	Fenami-phos, water, fltrd, μg/L (61591)	Desulf-inyl- fipro- nil sulfide amide, wat flt μg/L (62169)	Fipro-nil sulfide water, fltrd, μg/L (62167)	Fipro-nil sulfone water, fltrd, μg/L (62168)	Fipro-nil sulfone water, fltrd, μg/L (62166)	Fonofos water, fltrd, μg/L (04095)	Hexa-zinone, water, fltrd, μg/L (04025)	Ipro-dione, water, fltrd, μg/L (61593)	Isofen-phos, water, fltrd, μg/L (61594)	Mala-oxon, water, fltrd, μg/L (61652)	Mala-thion, water, fltrd, μg/L (39532)	Meta-laxyl, water, fltrd, μg/L (61596)
May 28...	<.20	<.03	<.029	E.006	<.024	E.007	<.010	.014	<.01	<.006	<.047	<.016	<.007

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 7

[Remark codes: <, less than; E, estimated.]

Date	Methid-athon, water, fltrd, μg/L (61598)	Methyl para-thion, water, fltrd, μg/L (61664)	Methyl para-thion, water, fltrd, 0.7u GF (82667)	Metola-chlor, water, fltrd, μg/L (39415)	Metri-buzin, water, fltrd, μg/L (82630)	Moli-nate, water, fltrd, 0.7u GF (82671)	Myclo-butanol water, fltrd, μg/L (61599)	Oxy-fluor-fen, water, fltrd, μg/L (61600)	Pendi-methalin, water, fltrd, 0.7u GF (82683)	Phorate oxon, water, fltrd, μg/L (61666)	Phorate water, fltrd, 0.7u GF (82664)	Phosmet oxon, water, fltrd, μg/L (61668)	Phosmet water, fltrd, μg/L (61601)
May 28...	<.004	<.01	<.008	.029	<.012	<.003	<.010	<.006	<.012	<.03	<.040	<.05	<.008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 6 of 7

[Remark codes: <, less than; E, estimated.]

Date	Prome-ton, water, fltrd, μg/L (04037)	Prome-tryn, water, fltrd, μg/L (04036)	Propy-zamide, water, fltrd, 0.7u GF (82676)	Propani-l, water, fltrd, 0.7u GF (82679)	Propar-gite, water, fltrd, 0.7u GF (82685)	Simazine, water, fltrd, μg/L (04035)	Tebu-thiuron water, fltrd, 0.7u GF (82670)	Teflu-thrin, water, fltrd, μg/L (61606)	Ter-bufos oxon sulfone water, fltrd, μg/L (61674)	Terbu-fos, water, fltrd, 0.7u GF (82675)	Ter-buthyl- azine, water, fltrd, μg/L (04022)	Thio-bencarb, water, fltrd, 0.7u GF (82681)	trans- Propi-conazole, water, fltrd, μg/L (79847)
May 28...	<.01	<.006	<.004	<.006	<.04	<.007	<.02	<.003	<.04	<.02	<.01	<.010	<.02

01465854 SOUTH BRANCH RANCOCAS CREEK AT EAYRESTOWN, NJ—Continued

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO
SEPTEMBER 2008**

Part 7 of 7

[Remark codes: <, less than; E, estimated.]

Date	Tri- flur- alin, phos, water, water, filtrd, μg/L (61610)	Di- chlor- vos, water, filtrd, 0.7u GF μg/L (82661)	Di- chlor- filtrd, μg/L (38775)
May 28...	<.035	<.009	<.01